Completed Pollution Prevention Project Case Study

United States Department of Energy Office of Environmental Management Fact Sheet Fiber-Optic Distribution TA-9 to TA-15

Los Alamos National Laboratory

Original Problem

LANL wanted to run a fiber-optic cable between TA-9 and TA-15 to give these sites much faster access to the LANL network. A new 14,000 foot long trench was going to be created to house the high speed data transmission line and its flexible innerduct shielding. The original project was estimated to cost \$334,000 and require 12 weeks to complete.

The Project Solution

By examining an underground map, Rick Beare discovered an abandoned 2 inch pipeline between the affected sites. Ownership of the pipeline was transferred to CIC-4 at no cost, and new plans were made to run the innerduct and the fiber-optic cable through the pipeline instead of digging a new trench. The revised project should only take 6 weeks to complete.

Value of Improvement

Approximately \$150,000 were saved by avoiding the equipment rental and labor costs associated with the construction of a new trench. The environmental benefits of not digging the trench include reduced soil erosion and air pollution. Housing the fiber-optic cable in the pipeline instead of just a trench gives the cable better protection. The project can be completed in about half the time originally scheduled.

Lifecycle Waste Reduction	
Lifecycle Waste Reduction	NA
Operation Commencement Date	2000
Project Useful Life (Years)	Indefinite



DOE Monetary Benefits	
Total Project Cost	NA
Lifecycle Savings	\$150,000
Return on Investment	NA

Benefits At-A-Glance

- Reduces environmental disturbance such as soil erosion, noise, and air pollution.
- Saves time and reduces the costs of labor and equipment rental.
- Affords better protection for the fiberoptic cable.

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Summary Data

Priority Area: Financial Management Projects

Project Type: Cost Reduction

Total Project Cost: NA

Lifecycle Savings: \$150,000 for this project

Implementing Group:CIC-4Benefiting Group:CIC-4Useful Life Years:IndefiniteReturn on Investment:NALifecycle Waste Reduction:NA

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